



# Tech Data Life Cycle “As is” Processes within NAVSEA Submarine Programs

Naval Sea Systems Command - 92L  
Submarine Technical Data and Training Requirement  
Division





# Who We Are -

TEAM SUBMARINE is a NAVSEA organization who manages numerous Department of Defense acquisition category (ACAT) programs. Widely recognizable programs include:

- The LOS ANGELES Class (SSN 688) fast attack submarines
- The OHIO Class (SSBN 726) "TRIDENT" strategic submarines
- The SEAWOLF Class (SSN 21) fast attack submarines
- The New Attack or Virginia Class Submarine
- The BSY-I, BSY-II, ARC-I Combat Weapon systems
- Deep Submergence Rescue Vehicles

# Where We Have

## Been - Problems and Progress



- Trying to live with evolving and conflicting standards
- Over 90% of our legacy data has been converted – it took us almost 10 years
- New acquisitions have been generally trying to drive standards to be followed by all
- No one in charge

# Current Submarine Programs Status -



- We have IETMs and associated infrastructure on over 60 submarines, and they are being used to satisfy daily operations, maintenance, and training requirements.
- We have IETMs being used in technical training pipelines and schoolhouses.
- We have IETMs being used by shore and industrial support communities.

Each instance presents a unique digital document delivery environment problem

# Tech Data Digital Product Inventory



- System and Component Technical Manuals
- Engineering Drawings
- Preventive and Corrective Maintenance Support Data and Standards
- Work Package Support Tools
- Technical Training Products

# Current Delivery Methods -



- Hard Copy (Rapidly Diminishing)
- Mix of web-browser and legacy runtime data presentation tools
- Local Area Networks (shipboard)
- LAN/WAN solutions (shore-based support infrastructure)
- Advanced Technical Information Support (ATIS) System

# What is Influencing Our “As Is” Processes?



- Chief of Naval Operations' IT-21 vision
  - Dept. of the Navy finally provided Digital Data Policy in November 1999.
  - DOD Joint Information Architecture (JIA) vision and guidance
  - Technology has matured
  - Sufficient industry consensus on Web Standards
  - NAVSEA ERP

# Where We Are Going



- A Digital Library schema that merges the best of legacy and acquisition investment and web-enabled interoperability
- A common information architecture that is platform neutral
- A practical point-of-use implementation strategy



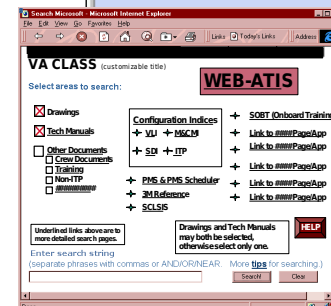
# “AS IS” Process Issues -



- ETM/IETM Authoring and Life-Cycle Maintenance
- Data Reuse with in other products and systems
- Really Understanding How Your Audience Uses ETMs/IETMs in Their Environment
- The Use of Digital Manuals in Operational Scenarios
- Digital Library of the Future - Knowledge Management Initiatives
- Data Sensitivity and Distribution Across Business Intranet

# Evolving Delivery Scenarios -

- Greater Interest in using PDAs and handheld devices
- Virtual Submarine Project
- Web-ATIS
  - All types of digital docs
    - | SGML, HTML, XML (XHTML), PDF, Hybrids
  - Integration with other legacy applications
    - training, supply, and maintenance
- ERP IDE



# Benefits that we are realizing -



- Dovetails with larger IDE/ERP initiatives
- Less equipment downtime
- Greater user satisfaction and effectiveness
- Proactive manuals vs. Reactive
- Reduced training time through product integration

# Summary -



- We are committed to the vision of the JIA
- We are working hard to leverage and optimize existing Navy investment
- We are big on doing more collaboration with other programs
- We are not in a race with anybody!